



The **897 Dosimeter Sound Measuring System** conducts personal noise surveys to meet IEC and OSHA requirements.

Used as a sound level meter, the 897 provides a quick survey of targeted areas and identifies suspect locations. The 897 is also ideal for industrial and environmental sound level measurements and checking noise areas for excessive dB exposure.

Use the 897 to take measurements and record, then view and print reports from the computer by using HyperTerminal program for later use during OSHA or other official inspections.

NOTE: Microsoft no longer includes a HyperTerminal program on Windows 7.

The 897 computes dosage and records up to 31 hours, at one minute intervals, of Lavg and Lmax readings and the number of detected 140 dB peak occurrences per minute. You can then print data up to 8 hours of recorded readings.

- Conforms to ANSI S1.4-1983, ANSI S1.25-1978, and IEC 651-1979 Specifications
- Choice of exchange rates (3, 4, or 5 dB) and criterion levels (70, 80, 84, 85, or 90 dB)
- Selectable threshold Level from 50-99 dB in 1 dB Increments
- Dual range (50-100 dB and 80-130 dB)
- Real Time Clock with rechargeable battery
- Security Lockout feature with Internal Data Storage
- Self-Test Modes test operational readiness



Ordering Information	
Sound Dosimetry System	Catalog Number
897 Universal Noise Dosimeter	12645
SMS-2 Universal Noise Dosimeter Kit	12646
887-2 Calibrator	12648
Accessories	Catalog Number
RS-232 Serial Cable for 897	02233
Parallel Printer Cable for 897 (Optional)	02234
Case, Molded Plastic	45021

SMS-2 Universal Sound Dosimeter Kit

The SMS-2 contains everything necessary to perform accurate surveys for OSHA and IEC requirements, along with the performance and reliability Simpson's test instruments have to offer.

Kit Includes:		
Α	Rugged Carrying Case	
В	AC Adaptor (110, 120, 220, 240)	
С	RS-232 Serial Cable and (Optional) Parallel Printer Cable	
D	Multi-Spline Wrench	
E	Calibration Screwdriver	
F	Microphone Clip	
G	Wind Screen	
Н	897 Dosimeter	
Ι	9V Battery	
J	887-2 Calibrator	
K	Nose Cone	





Specifications of Mod	el 897		
GENERAL			
Power Requirements	Ni-Cad Rechargeable battery pack		
Warm-Up Time	1 minute		
Dimensions	6.8" (H) x 3.1" (W) x 1.1" (D), (172x80x28mm)		
Weight	18 oz. (500g) including battery pack		
Case Construction	Anodized aluminum extrusion		
Security Feature	Locks-in operating function		
Real Time Clock	Clock continues running in all functions		
Performance Capability	Conforms to ANSI S1.4-1983 and IEC 651-1971 for sound level function		
	and ANSI S1.25-1978 for dosimeter function		
SOUND LEVEL MODE			
Ranges	50 to 100dB, 80 to 130 dB		
Accuracy	True RMS, Type S2		
Dynamic Range	Selectable from 50 to 100dB and 80 to 130dB		
Frequency Response Weighting	"A" Weighting		
Response Time	Slow (1 second)		
Crest Factor	10:1 at maximum indication		
Frequency Range	31.5Hz to 8KHz		
DOSIMETER MODE			
Threshold Level	Selectable from 50-99dB in 1dB increments		
Criterion Level	Selectable, 70, 80, 84, 85 or 90dB		
Criterion Duration (TC)	Eight (8) Hours		
Exchange Rate	Selectable 3, 4 or 5dB		
Maximum Indication	999.9% DOSE		
Resolution	0.1% DOSE to 999.9%		
Elapsed Time	Displays either Hours: Minutes: Seconds, up to 99 Hours 59 Minutes, 59 Seconds.		
	Timing Accuracy: 0.05%		
140dB Peak	Displays number of 140dB peaks that have been detected		
MICROPHONE			
Туре	0.52" (13.2mm) Diameter Electret Condenser, Omnidirectional 70° angle of incidence Maximum sound pressure level 148dB.		
DISPLAY			
Numerical	4 Digit LCD		
Annunciators	Lo Batt, Spl Max, Int 60, % Dose, dBA, plus a colon and decimal point		
ENVIRONMENTAL			
Operating Temperature	-10° to 50°C		
Temperature Coefficient	±0.05dB per °C (25° to 50°C) for reference measurement of 105dB at 1000Hz		
Relative Humidity	Range: 0-95% RH		
-	Influence: Less than 0.5db over measurement range		
Storage Range	-30° to 45°C (Limitation of battery)		
Magnetic Field Influence	No effect in of 1 oersted (80A/m)		



STANDARD REPORT OUTPUT

			SIMPSON 897 [SOUND ANALY TYPE	SIS REPORT		
TH EX	RITERION = 90 HERSHOLD = 80 (CHANGE RATE NIT IDENTIFAC	D DB = 3 DB				
JC	DB					
N	AME					
LC	OCATION					
ST C/		24 4.8 DBA 14:24	21/FEB/95 RAN 1 21/FEB/95 RA	IGE: 50/100 DB NGE: 80/100 DB		
RU H(LI SF D(EASUREMENT JN TIME OLD TIME EQ PL MAX OSE 40 DB PEAKS	SUMMARY: = 00:15 = 00:02 = 87.2 DBA = 87.2 DBA = 1.5% = 0				
	HISOTGRAM					
14 14 14	RS:MIN 4:25 4: 230 4:35 RS:MIN		70 80 +++ === ==== 76 HOL ++++.	= 88 86 D	110 120	130
н	RS:MIN	LAVG	LMAX	PEAKS	RANGE	
	1:25	86.9	95.6	0	CHANGED	
	1:26	93.2	106.9	0	80/130	
	4:27	87.9	92.5	0	80/130	
	1:28	87.3	97.3	0	80/130	
	1:29	86.4	86.6	0	80/130	
	4:30	86.5	93.0	0	80/130	
	4:31	87.2	90.0	0	80/130	
	4:32	87.2	91.2	0	80/130	
	4:33	84.9	92.1	0	80/130	
	1:34	85.4	85.6	0	80/130	
	4:35	86.2	86.6	0	CHANGED	
	1:36	86.5	86.6	0	50/100	HOLD
	4:37	60.9	71.5	0	50/100	HOLD
	1:38	85.1	101.6	0	50/100	
14	1:39	64.6	78.4	0	50/100	
		EN	D OF REPORT			



887-2 Calibrator

The model 887-2 calibrator has a selectable sound pressure range of 94dB and 114dB at 1 KHz.

The calibrator is immune to a wide range of temperature and humidity conditions is compatible with 1/2" microphone.

Operational readiness is indicated by the low battery red LED.



GENERAL			
Battery	One 9-volt battery, NEDA 1604A		
Battery Life	Approximately 35 hours for 2 hours per day operation, with 9V alkaline battery		
Mechanical Construction	Aluminum case includes acoustic cavity and provides shielding		
Weight	13.5oz (.35kg) - 897, 5.9 lbs. (2.68 Kg) SMS-2 Kit		
Dimensions	5 1/4" long, 2" diameter (131 mm long, 50mm diameter)		
ACOUSTIC OUTPUT			
Microphone	0.52" inch diameter		
Frequency	1000Hz ± 1%		
Sound Pressure	Selectable at 94 or 114 dB		
Reference Level	0dB = 20µ Pascals		
Accuracy	± 0.5dB at reference conditions		
Distortion	Less than 2%		
ENVIRONMENTAL			
Operating Temperature	0° to 50°C		
Storage Temperature	-40 to +60°C, battery removed		
Temperature Coefficient	Less than ± 0.05 dB/°C		
Operating Relative Humidity	0 to 90%, non-condensing		
Reference Conditions	23°C, 760mm Hg		
Relative Humidity	30 to 60%		

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